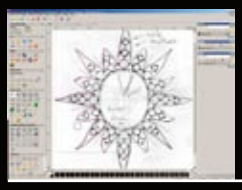
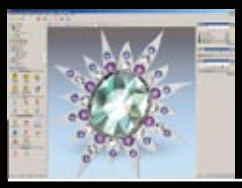
JWX-10 Wax Model Maker



"As well as improving my efficiency and accuracy, the JWX-10 gives me the ability to say yes to the client every time. I get so many thank you letters from clients.

I guess I'm exceeding their expectations."

Hillary Corney
Jewellery Designer, UK
www.designersilversmiths.com



From concept to production

.1

Scan in your hand drawn sketches and trace them in your design software or design the whole piece on screen.

.2

Create a digital model in a couple of minutes and render the design for your client's approval.

.3

The JWX-10 carves the wax master, without need of your supervision.

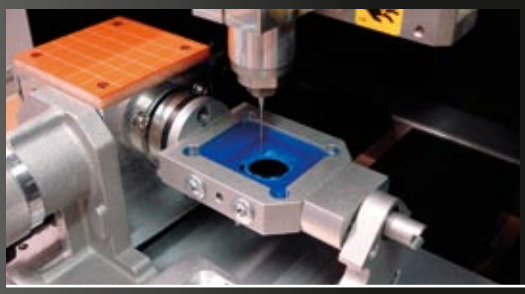
.4

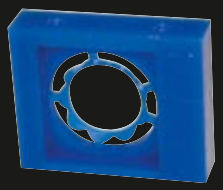
The wax master can be used to produce the final piece, or to create a master model for lager scale production.

* Jewellery designs and photos courtesy Hillary Corney.

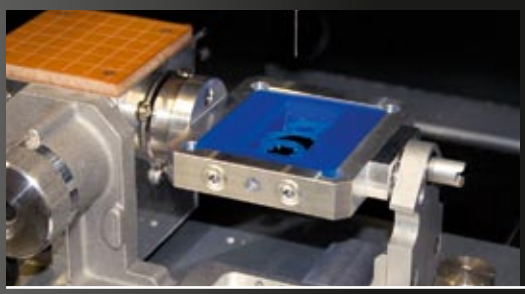
Produce detailed wax models with Roland digital vices

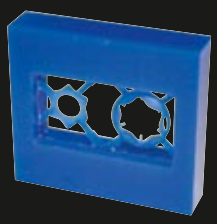
Ring Vice*



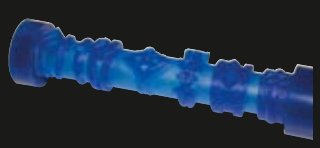


Pendant Vice**





Multi Ring Clamp***



* Vice used for milling a ring (37x46 cm)
** Vice used for milling a pendant (57x66 cm)
*** Vice used for milling several rings

Imagine. Design. Create.

Roland®

"Roland helps me save time and increase my productivity and efficiency."

Chalong Achawakorn
Jewellery Design Instructor, Thailand

"It's like this: I'm designing more and I'm producing more. And I'm doing it faster and with less effort."

Giuseppe Massoni
Jewellery Designer and Manufacturer, Italy
www.massoni-design.it

"The JWX is a machine that does the job it is made for perfectly! It is also fast, reliable and cheap to run."

Ger de Bruijn
Goldsmith - Designer, The Netherlands
www.atelierdebruijn.nl

"I love it! The machine and software have set me free. There are no more limitations to what I can do."

Eve Maree
Goldsmith – Designer, South Africa
www.digitalwax.co.za

Intuitive and Valuable

JWX-10

Unleash creativity and maximize productivity.
The JWX-10 is a milling machine specifically designed for jewellery manufacturers. Powered by a high-speed 20000 rpm spindle, the four-axis desktop machine quickly produces detailed wax models, based on your CAD created jewellery designs. It is an exceptionally fast, easy and accurate way to create wax masters for rings, bracelets and charms. The JWX-10 allows you to easily make identical models in different sizes, modify designs and reduce errors, time and cost without changing your conventional design process.

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Main Specifications		
Acceptable materials		Resins such as chemical wood and modeling wax (metal not supported)
X, Y, and Z operation strokes		Rotary axis unit uninstalled : 140 (X) x 105 (Y) x 105 (Z) mm Rotary axis unit installed : 140 (X) x 70.9 (Y) x 60 (Z) mm
Maximum angle of rotation		± 18 x 10^{5}° (± 5000 rotations)
Distance from spindle tip to work plate		Using work plate large : Maximum 126 mm Using work plate small : Maximum 40.5 mm
Work plate size Cutting area		Work plate large : 140 (W) x 105 (D) mm Work plate small : 65 (W) x 65 (D) mm
Dimensions of workpieces installable on the rotary axis unit		Diameter : Maximum 85 mm Length : 5 to 50 mm Internal circle : 15 to 23 mm
Loadable workpiece weight		Using rotary axis unit : 0.5 Kg (Maximum workpiece moment of inertia6x10^{-4} kgm^2) Using work plate large : 4.0 Kg, Using work plate small : 0.7 Kg
XYZ-axis motor		Stepping motor
Feed rate		XY-axis : 0.1 to 50 mm/sec. Z-axis : 0.1 to 30 mm/sec. A-axis : 0.02 to 11.79 rpm
Software resolution		0.01 mm/step
Mechanical resolution		XYZ-axis : 0.002 mm/step (0.0001 mm/step) A-axis : 0.0225 deg.
Clamping method		Specialized ring-cutting tool
Rotary-axis tilt angle		0 deg. to 90 deg. (in increments of 15 deg.)
Spindle motor		DC brushless motor, Maximum 100W
Spindle rotation		6000 to 20000 rpm
Tool chuck		Cutter holder (4.36mm) and collet
Interface		USB connector, sensor connector, rotary axis unit connector, expansion connector
Power supply	Voltage and frequency	AC100 to 240 ± 10%, 50/60 Hz
	Required power capacity	2.1 A
Power consumption		Approx. 210W
Acoustic noise level		No-load operation : 60 dB (A) or less, Standby : 40 dB (A) or less [According to ISO7779]
Dimensions		440 (W) x 517 (D) x 554 (H) mm
Weight		40 Kg
Operation temperature		5° to 40°C
Operation humidity		35 to 80% (no condensation)
Accessories		Power cord, collet, cutter, sensor cable, chucking knob, work plate (large), mounting screws for the large work plate, hexagonal wrenches, hexagonal screw drivers, spanners, Roland Software Package CD-ROM, MODELA Player4 CD-ROM, user's manual, Roland Software Package installation and setup guide, MODELA Player4 installation and setup guide

ISO 14001 :2004 and ISO 900 1:2000 Certified
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JMA REGISTRATION CENTER QMS,EMS JMAQA-270 JMAQA-E089
BM TRADA CERTIFICATION ISO 9001:2000
UKAS QUALITY MANAGEMENT 012

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